

ABSTRACT OF THE DISCLOSURE

The contents transmission scheduling unit 103 prepares a transmission schedule so that contents data of CM1, CM2, and CM3 as the cache target programs are transmitted prior to the 5 starting time of the reproduction time periods of these programs. The contents transmission scheduling unit 103 prepares the transmission schedule so that the contents data of the cache target programs are transmitted using a narrow bandwidth in a time period a predetermined time period before the starting time 10 of the reproduction time periods of these programs, and the bandwidth is widen after the time period.